

**COMPOSITION AND METHOD FOR INHIBITING CELLULAR  
PROLIFERATION COMPRISING TFPI FRAGMENTS**

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**ABSTRACT OF THE INVENTION**

10 Compositions and methods effective in inhibiting  
abnormal or undesirable cell proliferation, particularly  
endothelial cell proliferation and angiogenesis related to  
neovascularization and tumor growth are provided. The  
15 compositions comprise a naturally occurring or synthetic  
protein, peptide, or protein fragment containing all or an active  
portion of the C-terminal portion of proteinase inhibitors such as  
TFPI. The methods involve administering to a human or animal  
the composition described herein in a dosage sufficient to  
20 inhibit cell proliferation, particularly endothelial cell  
proliferation. The methods are useful for treating diseases and  
processes mediated by undesired and uncontrolled cell  
proliferation, such as cancer, particularly by inhibiting  
angiogenesis. Administration of the composition to a human or  
animal having prevascularized, metastasized tumors is useful  
for preventing the growth or expansion of such tumors.

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